RADIATORS

THE J.L.MOTT IRON WORKS

NEW YORK

Radiators and Heaters

FOR STEAM OR WATER.

APRIL 1st, 1900.

The J. L. Mott Iron Works,

Nos. 84 to 90 Beekman Street,

NEW YORK.

Boston. Philadelphia. St. Louis. Chicago.

CABLE ADDRESS:—NYMSIMIL

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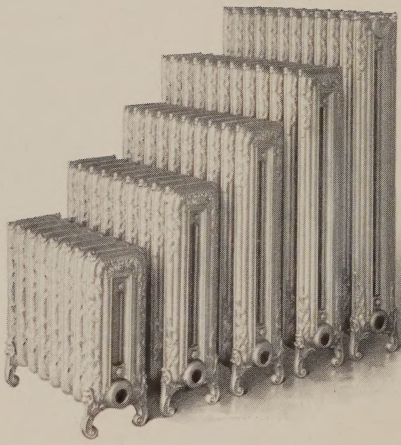
PRESS OF
E. D. SLATER,
NEW YORK.

THIS ABRIDGED CATALOGUE illustrates only part of the warming appliances used in the erection of modern heating plants, which we manufacture.

Our experience has covered a period of over seventy years, during which time all the various devices for the purpose, now in use, have been evolved.

Should you not find what you want illustrated herein, write for our complete catalogue.



MOTT'S ROMAN TWO COLUMN RADIATORS.

TO ENGINEERS AND CONTRACTORS.

The heating goods illustrated in this pamphlet represent long experience and careful and intelligent consideration of the problems connected with the warming of residences, business buildings and public edifices, together with thorough practical knowledge of the many difficulties to be overcome in installing a modern heating plant.

Our aim has been a simple and durable construction, together with the idea of utilizing to the fullest extent the forces of nature for the production and diffusion of heat, thus giving efficiency and economy, together with ease of operation.

Our sizes give a larger range than those of any other manufacturer, providing for all the needs from the smallest water heater to the largest steam boiler required for heating purposes.

In water heaters the range in capacity is from 100 square feet (9.29 métres carré,) of radiation to 10.000 square feet (929 métres carré,) in single units, and by arranging a battery of two or more units, sufficient capacity for any purpose may be obtained.

In steam boilers the sizes range in capacity from 300 square feet (27.87 métres carré,) to 6000 square feet (557.4 métres carré,) in single units,—any increased capacity by connecting two or more.

One of the important features of our boiler construction is the system of *movable flue plates*, by which the boiler may be adjusted to suit the chimney draft. These

plates may be changed at any time; they can be taken out while the boiler is in operation. This invention is fully protected by patents, and cannot be used by any other makers.

The sections of our boilers are separated to allow the fire and heated gases to come into contact with the heating surfaces of the boilers. The space between sections is two inches in the smaller sizes and three inches in the larger.

We connect our heater and radiator sections by smooth or push nipples, using the same principle that all locomotive, marine and factory power boilers are constructed on.

The only difference between the expanded joint and the push nipple joint is that one is pressed out while the other is squeezed in; both are iron to iron or iron to steel, as the case may be.

All our ratings are conservatively and carefully made, as an examination of our lists will show.

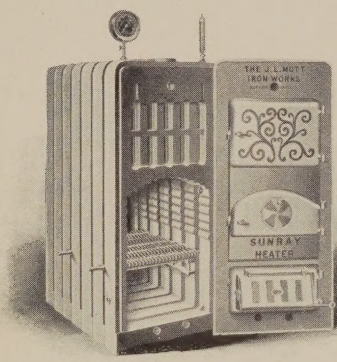
Our radiators have wide air spaces between the sections, thus enabling them to do the most effective work, both by radiation and contact of air.

All orders receive prompt and careful attention.

THE J. L. MOTT IRON WORKS,
84 TO 90 BEEKMAN STREET,
NEW YORK.

MOTT'S SECTIONAL "SUNRAY" STEAM BOILER AND WATER HEATER.

THE J.L.MOTT IRON WORKS



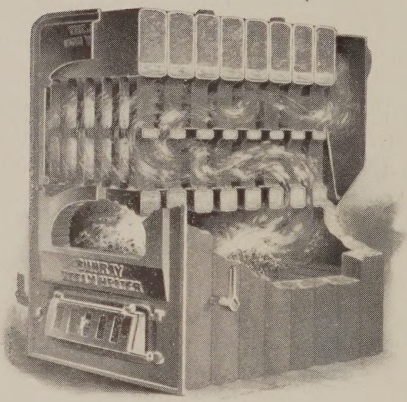
DIMENSIONS AND PRICES 650 AND 700 SERIES.

Number.	Size of Grate.	Size of Smoke Pipe.	Floor Space.	Tappings, Flow and Return.	Direct Water Radiation.	Direct Steam Radiation.	Price for Water.	Price for Steam with Trimmings.
654	20 x 20	8	28 x 28	1-3	475	290	$144	$154
655	20 x 25	8	28 x 32	1-3	625	375	180	190
656	20 x 30	9	28 x 37	1-3	825	475	216	226
657	20 x 35	9	28 x 42	2-3	1040	600	252	262
658	20 x 40	10	28 x 47	2-3	1225	725	288	298
659	20 x 45	10	28 x 52	2-3	1425	850	324	334
704	30 x 30	10	40 x 42	1-4	1200	750	283	304
705	30 x 36	12	40 x 50	1-4	1525	945	340	360
706	30 x 44	12	40 x 58	2-4	1825	1095	395	415
707	30 x 52	12	40 x 66	2-4	2100	1275	450	472
708	30 x 60	14	40 x 74	2-4	2375	1450	505	528
709	30 x 60	14	40 x 82	2-4	2750	1700	565	584
710	30 x 60	14	40 x 90	3-4	3200	1975	615	639
711	30 x 60	16	40 x 98	3-4	3660	2225	670	695
712	30 x 60	16	40 x 106	3-4	4125	2500	725	750
713	30 x 60	16	40 x 114	3-4	4580	2775	780	805
714	30 x 66	18	40 x 122	3-4	5050	3050	835	860
715	30 x 66	18	40 x 130	3-4	5500	3325	890	915
716	30 x 66	18	40 x 138	3-4	5950	3600	945	970

Height of Heaters 650 series, 59 inches; 700 series, 68 inches.
Height of Water Line, 650 series, 45 inches; 700 series, 48 inches.
Average Weight of Sections, 650 series, 300 lbs.; 700 series, 700 lbs.
Heating Surface 650 series, 15 square feet per section;
700 series, 30 square feet per section.

THE J.L.MOTT IRON WORKS

MOTT'S SECTIONAL "SUNRAY" STEAM BOILER AND WATER HEATER.



SECTIONAL CUT OF 650, 700 AND 400 SERIES.

The steam space in this Boiler is large, as will be seen from the cut, thus insuring a good steady pressure without constant firing. The surface in the Fire Box is all corrugated, giving additional heating surface as well as strength to the section.

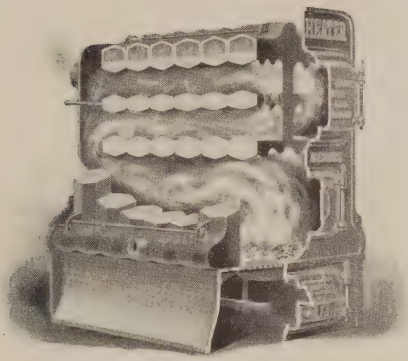
The Flue Plates in place are shown in cut. These are of great advantage, as the course of the gases may be lengthened or cut off to suit the requirements of a strong or poor draft. They are made so strong and heavy that there is no danger of their burning out even with hard firing.

All the intermediate sections are interchangeable, so any larger size Boiler can be made up by adding extra sections.

The connecting bolts in all our heaters pass through cored openings, and are away from both fire and water.

MOTT'S SECTIONAL "SUNRAY" STEAM BOILER AND WATER HEATER.

THE J.L.MOTT IRON WORKS



SECTIONAL CUT OF 70 SERIES.

The water passages in the sections of this series are very large and afford quick circulation for the liberation of steam, which is necessary to maintain a steady water line in a steam Boiler.

The Fire Box and the upper part of the flues are corrugated, thus giving an additional amount of self cleaning surface over the hottest part of the fire and heated gases.

All parts of the sections in these Boilers are heating surfaces of the most effective kind, and we guarantee its heating capacity equal to any sectional Boiler in the market, of the same size fire box and section.

The Ash Pits are large and deep enough to prevent the grates burning out, as so frequently happens in house heating Boilers.

This is in every sense a return flue safety sectional Boiler, and one that any engineer can use with confidence that it will do the work needed for any possible want.

THE J.L.MOTT IRON WORKS

DIMENSIONS AND PRICES OF MOTT'S SECTIONAL "SUNRAY" STEAM BOILERS AND WATER HEATERS.

SERIES 1.

Number.	Size of Grate.	Size of Smoke Pipe.	Floor Space.	Tappings, Flow and Return.	Direct Water Radiation.	Direct Steam Radiation.	Price for Water.	Price for Steam with Trimmings.
41	20 x 20	8	28 x 28	1—3	475	290	$144	$154
51	20 x 25	9	28 x 32	1—3	625	375	180	190
61	20 x 30	9	28 x 37	2—3	825	475	216	226
71	20 x 35	10	28 x 42	2—3	1040	600	252	262
81	20 x 35	10	28 x 47	2—3	1225	725	288	298
91	20 x 35	10	28 x 52	3—3	1425	850	324	334

Height of Heaters, 59 inches; height of Water Line, 45 inches.
Average weight of sections, 300 lbs.
Heating Surface, 16 square feet per section.

SERIES 70.

Number.	Size of Grate.	Size of Smoke Pipe	Floor Space.	Tappings, Flow and Return.	Direct Water Radiation.	Direct Steam Radiation.	Price for Water.	Price for Steam with Trimmings.
75	24 x 30	9	37 x 32	2—3	1075	650	$260	$275
76	24 x 36	9	37 x 38	2—3	1325	800	305	320
77	24 x 42	10	37 x 44	3—3	1575	950	350	365
78	24 x 48	10	37 x 50	3—3	1825	1080	395	410
79	24 x 54	12	37 x 56	3—3	2050	1220	440	455

Height of Heaters, 58 inches; height of Water Line, 46 inches.
Average weight of sections, 350 lbs.

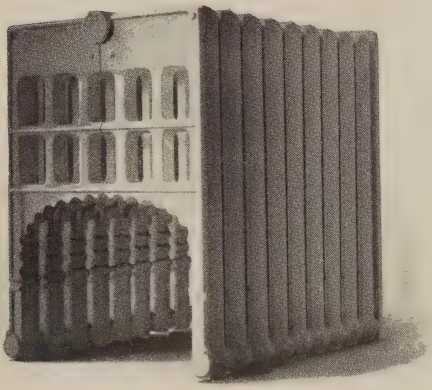
SERIES 80.

86	32 x 36	12	46 x 38	2—4	1850	1113	$400	$420
87	32 x 42	12	46 x 44	2—4	2025	1285	455	475
88	32 x 48	14	46 x 50	2—4	2400	1455	510	530
89	32 x 54	14	46 x 56	2—4	2800	1700	565	585
89A	32 x 60	16	46 x 62	3—4	3250	1975	620	640
89B	32 x 60	16	46 x 68	3 4	3700	2225	675	695

Height of Heaters 86-89, 65 inches; 89A, 89B, 63 inches.
Height of Water Line, 50 inches.
Average weight of sections, 350 lbs.
400 Series for water only, same size and rating as Series 1.

MOTT'S SECTIONAL SAFETY STEAM BOILER AND WATER HEATER.

THE J.L.MOTT IRON WORKS



DIMENSIONS AND PRICES OF SERIES 3.

Number.	Size of Grate.	Size of Smoke Pipe.	Floor Space.	Tappings, Flow and Return.	Direct Water Radiation.	Direct Steam Radiation.	Horse Power.	Price for Water.	Price for Steam with Trimmings.
73	46×36	14	5× 5	2—4	3300	2025	20	$626	$650
83	46×36	14	5× 5½	2—4	3800	2300	23	686	710
93	46×43	16	5× 6	2—4	4300	2600	26	746	770
103	46×43	16	5× 6½	2—4	4800	2900	29	806	830
113	46×50	18	5× 7¼	3—4	5300	3200	32	866	890
123	46×50	18	5× 8	3—4	5800	3500	35	926	950
133	46×57	20	5× 8¾	3—4	6300	3800	38	986	1010
143	46×57	20	5× 9½	3—4	7000	4200	42	1046	1070
153	46×57	22	5×10¼	4—4	7700	4700	47	1106	1130
163	46×57	22	5×11	4—4	8400	5200	52	1166	1190
173	46×64	24	5×11¾	4—4	9100	5700	57	1226	1250
183	46×64	24	5×12½	4—4	9800	6200	62	1286	1310

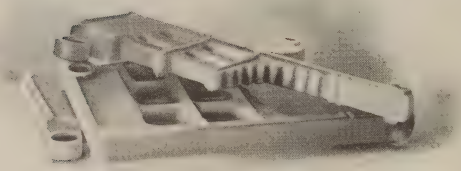
Height of Heaters, 75 inches; height of Water Line, 48 inches.

Heating Surface, 45 square feet per section.

THE J.L.MOTT IRON WORKS

SEPARATE HALF SECTIONS OF SECTIONAL SAFETY STEAM BOILER.

SERIES 3.



Our Series 3 Sectional Steam Boilers are composed of sections made in two pieces. Being so made they are easily handled, the largest piece weighing 350 pounds, and can be taken into a building through any ordinary door or window. The two pieces are connected at the top by one push nipple and the same bolts that hold the Boiler together, also hold in place the two parts of the section. The upper push nipples are 5 inches in diameter, and as one nipple is used to each half section, there is a continuous 5-inch header running the entire length inside of the Boiler. The bolts used to hold the sections together are run through cored openings, which keeps them away from both fire and water, thus avoiding the danger of leaking joints due to expansion.

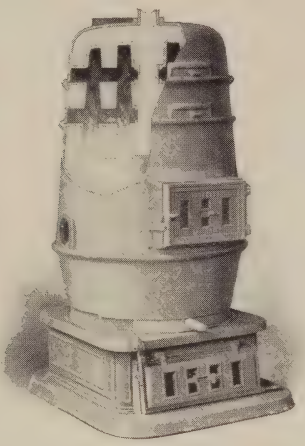
The grates used in this Boiler are very heavy and are held in sockets formed between the sections. Each bar is independent of all others and can be removed with ease and replaced without disturbing the rest of the grate. The height of the ash pit is 17 inches, which insures cool grates and perfect combustion, as well as room for working tools in cleaning out the ashes.

This Boiler when used with the movable flue plates is a return flue tubular Boiler and will be found as economical as any return flue Boiler in use. When used without the flue plates, it is a water tube Boiler, having all the advantages of this well known safety and economical type.

The smoke flues formed in the sections are 6 x 9 inches, large enough to burn any kind of fuel and to admit any kind of flue-cleaning brush. When sizes of over twelve sections are used, the two rows of flues are connected, giving a flue capacity equal to 270 square inches, which is full capacity for a 75 horse power Boiler.

MOTT'S ROUND SERIES "SUNRAY" WATER AND TANK HEATER.

THE J.L.MOTT IRON WORKS



SECTIONAL ILLUSTRATION.

All water joints are made before shipment, so the fitter has only two parts to handle. This heater has given entire satisfaction to all customers and there are over 5000 in use.

The tank capacities represent the size of tanks which experience has shown that the Heaters will supply for ordinary family use. For any special requirements, proper capacities should be provided.

DIMENSIONS AND PRICES.

Number.	Diameter of Fire Pot.	Size of Base.	Size of Smoke Pipe.	Height of Heater.	Size of Tapping.	Radiating Surface.	Tank Capacity in Gallons.	Price.
22	14	21 × 25	6	40	2		160	$37 00
23	14	21 × 25	6	41	2		200	42 00
24	18	25 × 30	7	41	2½		300	57 00
25	18	25 × 30	7	42	2½		390	72 00
25½	18	25 × 30	7	47	2½	350	450	114 00
27	21	28 × 34	8	47	3	400	520	126 00
28	21	28 × 34	8	52	3	475	615	144 00
28½	21	28 × 34	8	57	3	550	715	162 00
30	24	32 × 40	9	57	4	650	845	186 00
31	24	32 × 40	9	63	4	775	1010	208 00
32	24	32 × 40	9	69	4	900	1170	216 00

Return openings are at back in sizes 30, 31 and 32; all others at side.

THE J.L.MOTT IRON WORKS

BOILER RATINGS.

IMPORTANT NOTICE.

All ratings are based on the supposition that feed and return mains are properly put up and covered with good non-conducting material.

All Steam Boilers and Water Heaters are rated for the actual radiation they will carry, including all flow pipes, return pipes and risers.

All ratings are based on the standard of two pounds pressure at the Boiler in Steam Boilers, and a standard temperature of 170° at the Heater in Water Heaters.

All ratings are based on the assumption that hard coal is used as fuel; if bituminous coal is used, it is better to use a Boiler one size larger to do the work.

In estimating the size of Boiler, a liberal allowance should be made for the radiation from the flow and return pipes and fittings; good practice puts this at from 20 to 25 per cent.

All ratings are for direct radiation. If direct-indirect is used, the Boiler should be 25 per cent. larger, and if indirect is used, 50 per cent. larger than for direct radiation.

Our Boiler ratings must be applied only to Radiators that are ample in quantity to heat the building in which they are installed, and the piping between the Boiler and Radiators must be properly proportioned and erected in accordance with good practice.

All Boilers must be attached to a chimney with a good draft, and not less, round or square, than dimension given in the list for the Boiler specified; it must also be of ample height and must be used only for the Boiler.

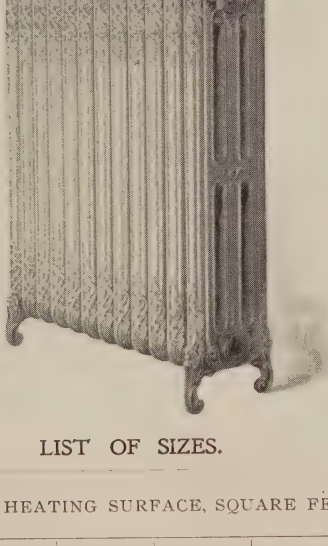
When a pipe coil is introduced in the fire box of a Boiler, or a steam coil is placed in a tank for the purpose of heating water for domestic use, additional capacity must be provided when determining the size of Boiler required, as follows: 2 square feet of radiation for hot water, and 1¼ square feet of radiation for steam, for each gallon of water heated 50° per hour.

Our Boilers are guaranteed only to the extent of furnishing new castings for any found defective in manufacture.

MOTT'S ROMAN THREE COLUMN RADIATOR.

THE J.L.MOTT IRON WORKS

FOR STEAM OR WATER.



LIST OF SIZES.

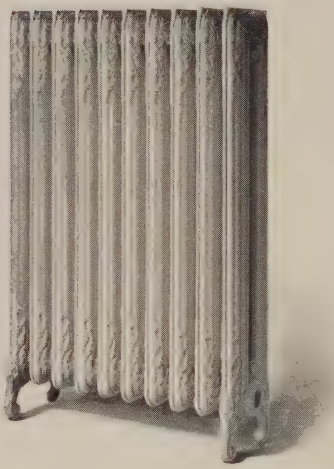
Number of Sections.	Length in inches	HEATING SURFACE, SQUARE FEET.				
		45 in. high. 6½ sq. feet per Section.	38 in. high. 5½ sq. feet per Section.	32 in. high. 4¾ sq. feet per Section.	26 in. high. 4 sq. feet per Section.	20 in. high. 3¼ sq. feet per Section.
3	7½	19½	16½	14¾	12	9¾
4	10	26	22	19	16	13
5	12½	32½	27½	23¾	20	16¼
6	15	39	33	28½	24	19½
7	17½	45½	38½	33¼	28	22¾
8	20	52	44	38	32	26
9	22½	58½	49½	42¾	36	29¼
10	25	65	55	47½	40	32½

Width of Section, 9½ inches; width across Feet, 10¼ inches.
Distance from Floor to center of 2 inch Tapping, 5 inches.
Distance from Floor to center of 1½ inch Tapping, 4¼ inches.
Distance from Floor to center of 1¼ inch Tapping, 4⅝ inches.
Distance from Floor to center of 1 inch Tapping, 4½ inches.

THE J.L.MOTT IRON WORKS

MOTT'S ROMAN TWO COLUMN RADIATOR.

FOR STEAM OR WATER.



LIST OF SIZES.

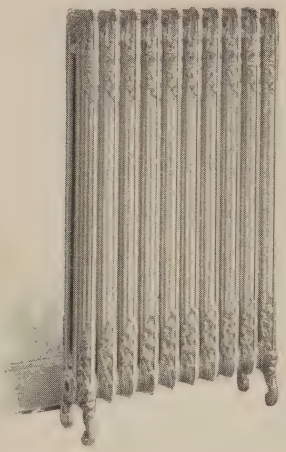
Number of Sections.	Length in inches.	HEATING SURFACE, SQUARE FEET.				
		45 in high. 5¼ sq. feet per Section.	38 in. high. 4¼ sq. feet per Section.	32 in. high. 3½ sq. feet per Section.	26 in. high. 2¾ sq feet per Section.	20 in. high. 2¼ sq. feet per Section.
2	5	10½	8½	7	5½	4½
3	7½	15¾	12¾	10½	8¼	6¾
4	10	21	17	14	11	9
5	12½	26¼	21¼	17½	13¾	11¼
6	15	31½	25½	21	16½	13½
7	17½	36¾	29¾	24½	19¼	15¾
8	20	42	34	28	22	18
9	22½	47¼	38¼	31½	24¾	20¼
10	25	52½	42½	35	27½	22½

Width of Section, 7¾ inches; width across Feet, 8¼ inches.
Distance from Floor to center of 2 inch Tapping, 4¾ inches.
Distance from Floor to center of 1½ inch Tapping, 4½ inches.
Distance from Floor to center of 1¼ inch Tapping, 4⅜ inches.
Distance from Floor to center of 1 inch Tapping, 4¼ inches.

MOTT'S ROMAN SINGLE COLUMN RADIATOR.

THE J.L.MOTT IRON WORKS

FOR STEAM OR WATER.



LIST OF SIZES.

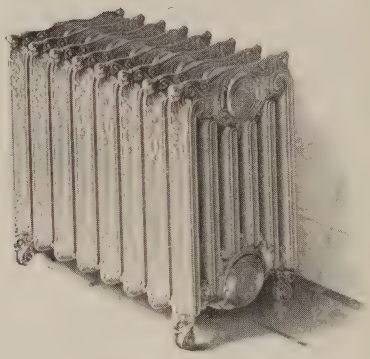
Number of Sections.	Length in inches.	HEATING SURFACE, SQUARE FEET.		
		38 in. high. 3 sq. feet per Section.	32 in. high. 2½ sq. feet per Section.	26 in. high. 2 sq. feet per Section.
2	4	6	5	4
3	6	9	7½	6
4	8	12	10	8
5	10	15	12½	10
6	12	18	15	12
7	14	21	17½	14
8	16	24	20	16
9	18	27	22½	18
10	20	30	25	20

Width of Section, 5 inches; width across Feet, 5¾ inches.
Distance from Floor to center of 2 inch Tapping, 4½ inches.
Distance from Floor to center of 1½ inch Tapping, 4¼ inches.
Distance from Floor to center of 1¼ inch Tapping, 4⅛ inches.
Distance from Floor to center of 1 inch Tapping, 4 inches.

THE J.L.MOTT IRON WORKS

MOTT'S UTILITY RADIATOR.

FOR STEAM OR WATER.



The most effective Radiator of its class.

LIST OF SIZES.

Number of Sections.	Length in inches.	HEATING SURFACE, SQUARE FEET.				
		26 in. high. 7 sq. feet per Section.	22 in. high. 6 sq. feet per Section.	18 in. high. 5 sq. feet per Section.	14 in. high. 4 sq. feet per Section.	13 in. high. 4 sq. feet per Section.
3	5	14	12	10	8	8
3½	7½	21	18	15	12	12
4	10	28	24	20	16	16
5	12½	35	30	25	20	20
6	15	42	36	30	24	24
7	17½	49	42	35	28	28
8	20	56	48	40	32	32
9	22½	63	54	45	36	36
10	25	70	60	50	40	40

Width of Section, 11 inches; width across Feet, 11¼ inches.
Distance from Floor to center of 2 inch Tapping, 3½ inches.
Distance from Floor to center of 1½ inch Tapping, 3¼ inches.
Distance from Floor to center of 1¼ inch Tapping, 3⅛ inches.
Distance from Floor to center of 1 inch Tapping, 3 inches.

END SECTIONS OF MOTT'S 14, 18 AND 22-INCH UTILITY RADIATOR.

THE J. L. MOTT IRON WORKS

Made also in 13-inch, which size has legs 1 inch shorter than the 14-inch pattern.

TAPPING FOR MOTT'S RADIATORS.

Unless otherwise ordered, all Radiators will be tapped with right hand threads according to the following table:

All Radiators containing 26 feet or under, 1 inch.
" " above 26 ft. but not exceeding 60 ft. 1¼ in.
" " " 60 " " " 112 " 1½ "
" " " 112 " 2 in.

These tappings will be the same size for water, single or two-pipe steam; but in the case of two-pipe steam, the return will be tapped one size smaller.

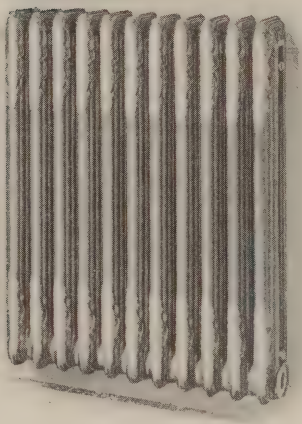
If any other tapping is needed than regular, it should be clearly stated on the order. All tappings are solid; no bushings are used unless specially ordered.

Radiators will be made with legs of any height that may be required at an additional price as given in the specialty list.

THE J.L.MOTT IRON WORKS

MOTT'S ROMAN SINGLE COLUMN WALL RADIATOR.

FOR STEAM OR WATER.



Set up by our system of concealed brackets.

Made in all the heights of the regular Radiator, also in two and three column patterns and can be adapted to any possible requirement.

From center of tappings to wall or base in all Bracket Radiators, the distances are as follow: Three Column, 5 inches; Two Column, 4 inches; Single Column, 2¾ inches.

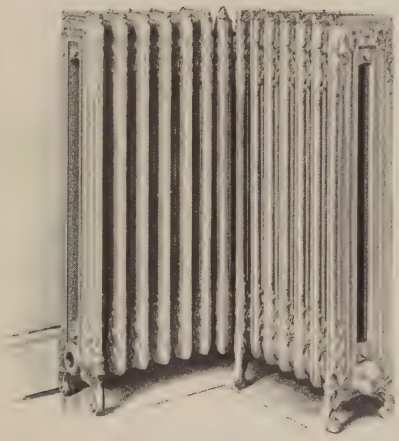
To set up Wall Radiators, it is necessary to put a wood plate on wall above the base board to come out flush with it. See that this base is securely fastened to a stud in the partition, then the Radiator will be as firm as if set on legs.

This system leaves the floor clear for the laying of carpets, cleaning, etc., and is a distinct advance in Radiator construction. It also simplifies the work and reduces the cost of connecting all upper floor Radiators.

MOTT'S ROMAN TWO COLUMN CORNER RADIATOR.

THE J.L.MOTT IRON WORKS

FOR STEAM OR WATER.



Four sections are needed to turn a corner, and as many regular sections may be added as required.

Space occupied by the four corner sections, 11½ inches each way from the corner of the room.

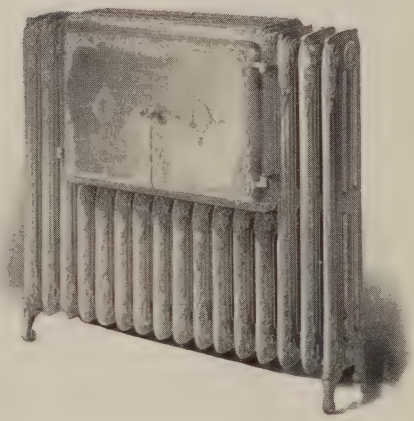
Made also in Single Column and Three Column patterns.

In ordering curved or corner Radiators, always state which is the feed end as you face the Radiator when in position.

THE J.L.MOTT IRON WORKS

MOTT'S ROMAN DINING ROOM RADIATOR.

FOR STEAM OR WATER.



Made in Three Column pattern only. Ovens are all the same size, 24 × 11 × 16.

Height, 38½ inches.

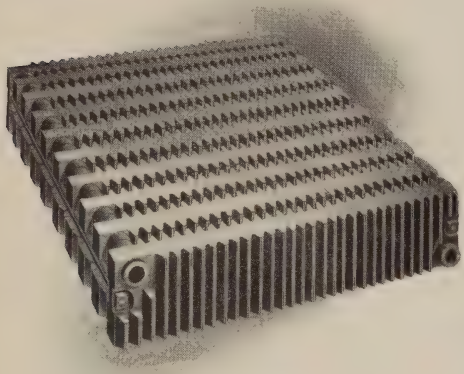
No.	2	3	4	5	6
Length in inches,	30	35	40	45	50
Heating surface, sq. ft.,	38	49	60	71	82
Price, Water,	$50 00	$55 00	$60 00	$65 00	$70 00
Price, Steam,	46 00	50 00	54 00	58 00	62 00

No.	7	8	9	10
Length in inches,	55	60	65	70
Heating surface, sq. ft.,	93	104	115	126
Price, Water,	$75 00	$80 00	$85 00	$90 00
Price, Steam,	66 00	70 00	74 00	78 00

MOTT'S PRIME SURFACE INDIRECT RADIATOR.

THE J.L. MOTT IRON WORKS

FOR STEAM OR WATER.



All surface is backed by water or steam. Each section contains 12 square feet of heating surface.

PRICE LIST OF INDIRECT RADIATORS.

Mott's Pin Indirect, 10 square feet, per section,	$2 70
" " " 15 " " " " "	4 05
" " " 20 " " " " "	5 40
Mott's Prime Surface Indirect, 12 square feet, per section,	3 24

Unless otherwise ordered, Indirect Radiators are shipped in separate sections with bolts for putting together.

All Indirect Radiators may be made up into stacks, if so desired, at a uniform charge of one cent per foot, net.

In ordering Indirect Radiators, always specify the number of stacks needed, so that the proper number of end sections may be shipped.

THE J.L.MOTT IRON WORKS

MOTT'S RADIATOR PRICE LIST

FOR ALL DIRECT RADIATORS.

Height,	45 in.	38 in.	32 in.	26 in.	22 in.
Price per foot,	.41	.42	.46	.49	.53
Height,	20 in.	18 in.	15 in.	14 in.	13 in.
Price per foot,	.57	.58	.62	.64	.66

SPECIALTIES, EXTRA PER SECTION.

	High Legs.	Column.	Curved.	Window.	Stairway.
Steam,	.50	.58	.58	.16	.34
Water,	.50	.92	.92	.32	.68

	Saddles for Marble Tops per pair.	Wall Brackets per set.	Direct-Indirect Base with Damper.
Steam,	$1 00	$1 00	.50
Water,	1 00	1 00	.50

Corner Radiator for steam, each Radiator $4.00.
Corner Radiator for water, each Radiator $4.50.

MOTT'S WALL BOX FOR DIRECT-INDIRECT.

A perfect device for letting in fresh air and keeping out snow or rain.

Size for opening in brick work,	29×5	21⅜×5	17½×5
Size of collar for galvanized iron,	29×3¼	21¾×3¼	17½×3¼
List price, each,	$4 00	$3 50	$3 00

MOTT'S RADIATOR FLOOR DAMPER.

For Direct-Indirect fresh air openings entering under Radiator.

Sizes,	8×13	8×15	8×19	8×23	8×29	8×36	8×39
Area square inches,	18	26	34	45	65	85	100
Price,	$1 50	$1 75	$2 00	$2 25	$2 50	$2 75	$3 00

PRICE LIST.

MOTT'S STEAM RADIATOR VALVES, COMPOSITION DISC, NICKEL-PLATED ALL OVER.

WITH UNION.

Size,	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Price,	$3 80	$4 75	$6 40	$8 10	$13 10

WITHOUT UNION.

Size,	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Price,	$2 85	$3 65	$4 90	$6 75	$11 00

MOTT'S QUICK OPENING WATER RADIATOR VALVES, NICKEL-PLATED ALL OVER.

WITH UNION.

Size,	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Price,	$2 85	$3 65	$5 05	$7 10	$10 85

WITHOUT UNION.

Size,	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Price,	$1 95	$2 65	$3 70	$5 00	$7 75

MOTT'S CORNER STEAM RADIATOR VALVES, NICKEL-PLATED ALL OVER.

WITH UNION.

Size,	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Price,	$4 20	$5 25	$7 05	$8 95	$14 45

WITHOUT UNION.

Size,	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Price,	$3 15	$4 00	$5 50	$7 50	$12 10

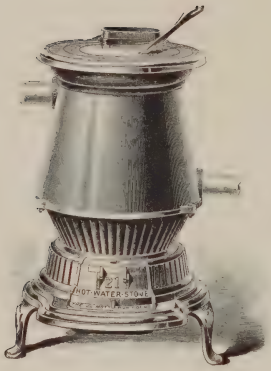
In all corner valves, the female thread may be tapped left hand if so ordered.

MOTT'S ALL BRASS NICKEL-PLATED UNION ELBOWS.

Size,	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Price,	$2 00	$2 50	$3 20	$4 00	$7 00

THE J.L. MOTT IRON WORKS

MOTT'S WATER HEATING STOVE.



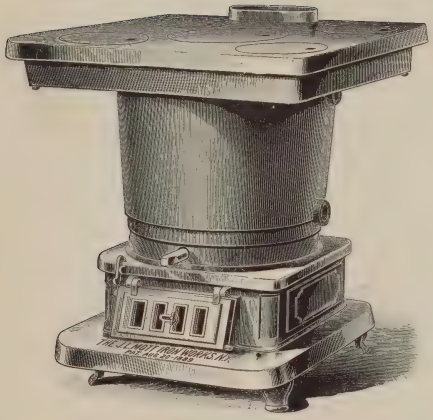
MADE IN TWO SIZES.

No.	Size of Fire Pot.	Depth of Water Cylinder.	Will Heat per Hour.	Price.
20	10 in.	10½ in.	40 to 55 gals.	$24 00
21	11 in.	14 in.	50 to 70 gals.	30 00

This Stove cannot be used for heating irons, but the top may be used to boil clothes in an open boiler.

MOTT'S IRON HEATER AND WATER HEATING STOVE.

THE J.L. MOTT IRON WORKS



ONE SIZE ONLY.

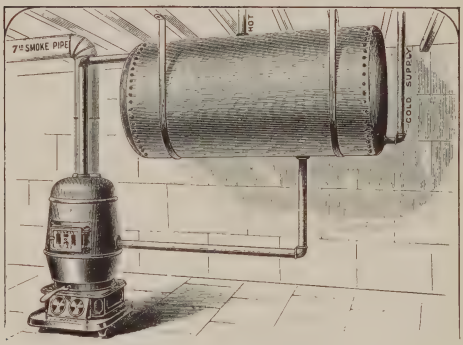
No.	Size of Top.	Size of Fire Pot.	Depth of Water Cylinder.	Price.
52	27×27 inches.	12 inches.	12 inches.	$35 00

Will heat from 60 to 140 gallons per hour. Fire bricks are made to fit inside fire pot to reduce water heating capacity. Top has a heating capacity for 18 to 24 irons.

THE J.L.MOTT IRON WORKS

MOTT'S STEEL HOT WATER TANKS.

WITHOUT COILS.



DIMENSIONS AND PRICES.

Dimensions.	Capacity, Galions.	Average Weight.	Black.	Galvan'd.
5 × 18	66	200		$40 00
6 × 18	80	215		44 00
5 × 20	85	230		47 50
6 × 20	100	260		61 50
5 × 22	100	260		67 50
6 × 22	120	300		74 00
5 × 24	120	300	$60 00	85 00
6 × 24	145	330	64 00	90 00
7 × 24	170	360	68 00	96 00
8 × 24	200	420	72 00	108 00
5 × 30	185	450	80 00	114 00
6 × 30	220	500	85 00	122 00
7 × 30	257	550	90 00	128 00
8 × 30	300	600	95 00	138 00
10 × 30	375	700	100 00	158 00
6 × 36	325	700	105 00	180 00
7 × 36	375	800	115 00	200 00
8 × 36	425	900	130 00	225 00
10 × 36	530	1000	145 00	250 00
8 × 42	600	1250	165 00	280 00
10 × 42	725	1500	205 00	320 00
12 × 42	850	1750	250 00	380 00

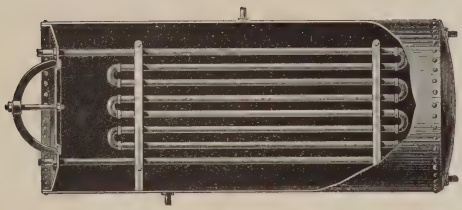
Man Holes, extra $12. Hand Holes, extra $5.

All Boilers up to 6 × 22 are tapped 1 inch; all up to 10 × 30, 1½ inch; all above are tapped 2 inches. Location of tap holes will be as shown in cut unless otherwise ordered.

MOTT'S STEEL HOT WATER TANKS.

THE J.L.MOTT IRON WORKS

WITH STEAM COILS.



DIMENSIONS AND PRICES.

Dimensions.	Capacity, Gallons.	Black With Galv'd Coil.	Black With Brass Coil.	Galvanized. With Galv'd Coil.	Galvanized. With Brass Coil.
5 × 18	66				90 00
6 × 18	80				102 00
5 × 20	85				105 00
6 × 20	100				132 00
5 × 22	100				132 00
6 × 22	120				144 00
5 × 24	120	$80 00	$120 00	$120 00	150 00
6 × 24	145	90 00	140 00	130 00	175 00
7 × 24	170	100 00	160 00	140 00	200 00
8 × 24	200	110 00	180 00	150 00	225 00
5 × 30	185	115 00	180 00	160 00	235 00
6 × 30	220	125 00	190 00	180 00	250 00
7 × 30	257	135 00	200 00	210 00	275 00
8 × 30	300	145 00	210 00	240 00	300 00
10 × 30	375	160 00	220 00	270 00	350 00
6 × 36	325	150 00	240 00	250 00	325 00
7 × 36	375	170 00	265 00	270 00	350 00
8 × 36	425	190 00	290 00	290 00	375 00
10 × 36	530	220 00	325 00	330 00	420 00
8 × 42	600	240 00	360 00	350 00	440 00
10 × 42	725	275 00	400 00	390 00	480 00
12 × 42	850	320 00	450 00	440 00	540 00

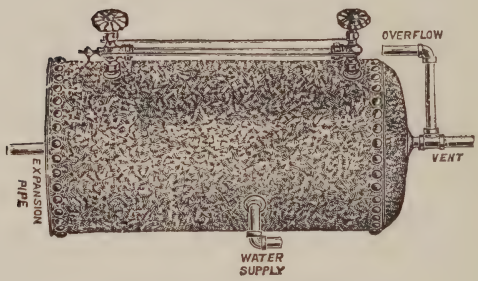
Coils are made of sufficient size to heat the water in the tank from 50° to 190° in two hours. For Coils to heat in one and one and a half hours, see discount sheet.

All Coil Boilers up to and including 6 × 22 are vertical only and have no man holes. All above that size are made to be placed horizontally and have man holes in end.

THE J.L.MOTT IRON WORKS

MOTT'S GALVANIZED STEEL EXPANSION TANK.

TESTED TO 150 POUNDS PRESSURE.



DIMENSIONS AND PRICES.

Capacity Gallons.	Size.	Square Feet of Radiation.	Price, including Gauge.
8	10 × 20	300 to 400	$9 00
10	12 × 20	400 to 500	9 50
12	12 × 24	500 to 600	10 00
15	12 × 30	600 to 700	10 75
18	12 × 36	700 to 900	12 00
20	14 × 30	1000 to 1300	14 75
26	16 × 30	1400 to 1800	15 75
32	16 × 36	2000 to 2400	17 00
42	16 × 48	2800 to 3500	18 50
66	18 × 60	4000 to 5000	33 00
82	20 × 60	6000 to 7000	39 00
100	22 × 60	8000 to 10000	53 00
120	24 × 60	11000 to 15000	60 00

Water Gauges,	8 to 15 gallons, ...		$2 00
" "	18 to 32 "		3 00
" "	42 to 120 "		4 00

MOTT'S SELF FEEDING TANK.

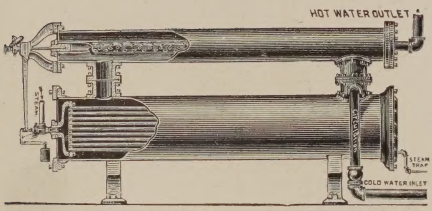
Size.	Depth.	Capacity.	Price.
12 × 18	12 inches.	10 gallons.	$15 00

Water Gauge and Glass, extra $2.

Not made to stand over 10 pounds pressure.

TOBEY AUTOMATIC WATER HEATER.

THE J.L.MOTT IRON WORKS



The Heater is supplied with sufficient heating surface to heat water as rapidly as the heaviest draft upon it may require, and the body or shell of the Heater is only of sufficient size to contain the heating surface and internal parts—no provision being made for the storage of hot water, as is the case with the ordinary water heater; therefore, the Heater requires but little space, is light to handle, and reduces waste of heat by radiation from its surface to a minimum.

The above cut represents the Nos. 2 and 3 Heaters. The No. 2 Heater is seven feet long and eight feet over all. The lower chamber is sixteen inches in its internal diameter and the upper eight inches. It contains thirty one-inch corrugated tubes and has a capacity for heating forty gallons of water per minute from 50° to 180°. The No. 3 Heater is eight feet long and nine feet over all, and the chambers of the same diameter as No. 2, and contains forty-eight one-inch corrugated tubes, and has a capacity for heating eighty gallons of water per minute from 50° to 180°.

This is the best Heater for supplying hot water for large buildings, such as hotels, asylums, office buildings, bath houses, or for any purpose requiring a large quantity of hot water. Write for our special pamphlet about Tobey Heaters.

THE J.L.MOTT IRON WORKS

TOBEY AUTOMATIC WATER HEATER.

DIMENSIONS AND PRICES.

	Diameter of lower shell.	Diameter of upper shell.	Length of shell.	Capacity per minute from 50° to 180°.	Price
No. 1,	2 ft. in diam.,	3 ft. 6 in. high.		20 gals.	$300 00
No. 2,	16 in.	8 in.	7 ft.	40 gals.	400 00
No. 3,	16 in.	8 in.	8 ft.	80 gals.	500 00

TOBEY STEAM TRAP.

DIMENSIONS AND PRICES.

	Size of Inlet.	Size of Outlet.	Capacity for Draining 1-inch Pipe.	Price.
No. 1,	¾ inch.	¾ inch.	8,000 feet.	$30 00
No. 2,	1 inch.	1 inch.	25,000 feet.	50 00

DIAMETER OF TOBEY HEATER CONNECTIONS.

	No. 1.	No. 2.	No. 3.
Cold Water Inlet,	1 inch.	3 inch.	3 inch.
Hot Water Outlet,	1½ inch.	2½ inch.	2½ inch.
Drip,	¾ inch.	1¼ inch.	1¼ inch.

The size of the steam valve connection is regulated by the pressure of the steam to be used with the heater. The heater operates equally as well with low pressure steam as high, but of course requires a much larger valve and steam connection.

Information about TOBEY HEATERS will be supplied on application—there are hundreds in use—and we can furnish testimonials as to their value.

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